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1 An automated documentation system for a large scale manufacturing engineering research project

Howard M. Bloom, Carl E. Wenger

April 1983 **Proceedings of the 2nd annual international conference on Systems documentation**

Full text available: pdf(637.00 KB) Additional Information: full citation, abstract, references, index terms

The Automated Manufacturing Research Facility (AMRF) being implemented at the National Bureau of Standards (NBS) involves the development of a software system integrating the various information processing, communications and data storage functions required in a totally automated manufacturing environment. The project contains a five year software development effort by more than thirty research staff organizationally partitioned into many units working concurrently on different parts of the ...

2 GENESIS: a project to develop an extensible database management system

D. S. Batory

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Full text available: pdf(128.84 KB) Additional Information: full citation, abstract, references, citings, index terms

Existing database management systems are tailored to traditional business applications. Since 1980, a variety of new database applications have arisen: VLSI CAD, graphics, and statistical databases are examples. These new applications cannot be handled easily or efficiently by available DBMSs because their requirements are so unusual. In particular, they demand special-purpose data types and operators, and require novel storage structures and new query processing techniques. The idea that a ...

3 Teaching user interface development to software engineering and computer science majors

Gary Perlman

June 1990 **ACM SIGCHI Bulletin**, Volume 22 Issue 1

Full text available: pdf(612.88 KB) Additional Information: full citation, abstract, references, citings, index terms

There is a critical need for timely and usable curriculum development materials for teaching user interface development to software engineering and computer science students. An updated version of the Software Engineering Institute's curriculum module on User

Interface Development has been released. This paper provides an overview of the module, its history, and how it has been used.At the Software Engineering Institute (SEI) at Carnegie-Mellon University there is a Curriculum Development Projec ...

4 The design, analysis, and verification of the SIFT fault tolerant system
John H. Wensley, Milton W. Green, Karl N. Levitt, Robert E. Shostak
October 1976 **Proceedings of the 2nd international conference on Software engineering**

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

The SIFT (Software Implemented Fault Tolerance) computer is a fault-tolerant computer in which fault tolerance is achieved primarily by software mechanisms. Tasks are executed redundantly on multiple, independent processors that are loosely synchronized. Each processor is multiprogrammed over a set of distinct tasks. A system of independently accessible busses interconnects the processors. When Task A needs data from Task B, each version of A votes, using software, on the data computed by t ...

Keywords: Fault-tolerance, Formal specification, Hierarchical design, Proof of specification, Reliability modelling

5 Overview of Teknowledge's domain-specific software architecture program
Allan Terry, Frederick Hayes-Roth, Lee Erman, Norman Coleman, Mary Devito, George Papanagopoulos, Barbara Hayes-Roth
October 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 4

Additional Information: full citation, abstract, citings, index terms

As part of the ARPA DSSA program, we are developing a methodology and integrating a suite of supporting tools to help specify, design, validate, package and deploy distributed intelligent control and management (DICAM) applications. Our domain of specialization is vehicle management systems, and our near-term focus is on advanced artillery systems. To attain higher levels of performance and functionality while reducing the time and cost required for development, we are recommending a generic con ...

6 Some experience with automated aids to the design of large-scale reliable software
B. W. Boehm, R. K. McClean, D. B. Urfrig
April 1975 **ACM SIGPLAN Notices , Proceedings of the international conference on Reliable software**, Volume 10 Issue 6

Full text available: pdf(704.24 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper summarizes some recent experience in analyzing and eliminating sources of error in the design phase of large software projects. It begins by pointing out some of the significant differences in software error incidence between large and small software projects. The most striking contrast, illustrated by project data, is the large preponderance of design errors over coding errors on large-scale projects, not only with respect to numbers of errors, but also with respect to the relat ...

Keywords: Automated aids, Design validation, Information systems, Large-scale software projects, Reliable software, Software design, Software productivity, Software specifications, Software tools, Verification and validation

7 Do lab modules in CS actually help students?: an empirical study
Bunny J. Tjaden
March 1998 **ACM SIGCSE Bulletin , Proceedings of the twenty-ninth SIGCSE technical**

symposium on Computer science education, Volume 30 Issue 1
Full text available: pdf(658.37 KB) Additional Information: full citation, abstract, references, index terms

Three laboratory modules were developed to teach C pointers to novice programming students, using two different versions of software. The first version was an intelligent tutoring system; the second was a multimedia tutorial. Six classes of students participated in an empirical study involving both versions of software. What was discovered as a result of this experiment was more than just the answer to whether or not a particular piece of software helped the students to learn the subject matter. ...

8 Software development control based on module interconnection
Walter F. Tichy
September 1979 **Proceedings of the 4th international conference on Software engineering**
Full text available: pdf(900.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Constructing large software systems is not merely a matter of programming, but also a matter of communication and coordination. Problems arise because many people work on a joint project and use each other's programs. This paper presents an integrated development and maintenance system that provides a controlling environment to insure the consistency of a software system at the module interconnection level. It assists the programmers with two facilities: In ...

9 MJ: a rational module system for Java and its applications
John Corwin, David F. Bacon, David Grove, Chet Murthy
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications**, Volume 38 Issue 11
Full text available: pdf(208.83 KB) Additional Information: full citation, abstract, references, citings, index terms

While Java provides many software engineering benefits, it lacks a coherent module system and instead provides only packages (which are primarily a name space mechanism) and classloaders (which are very low-level). As a result, large Java applications suffer from unexpected interactions between independent components, require complex CLASSPATH definitions, and are often extremely complex to install and maintain. We have implemented a module system for Java called MJ that is implemented with clas ...

Keywords: Java, components, language design, modularity

10 Process programming and process models
Thomas E. Cheatham
October 1990 **Proceedings of the 5th international software process workshop on Experience with software process models**
Full text available: pdf(260.91 KB) Additional Information: full citation, abstract, references, citings, index terms

At the Fourth Software Process Workshop the final session was devoted to identifying "emerging issues". The issues that were identified fell into two categories. One had to do with language issues — how to provide the facilities that support the writing of the process programs that implement process models. The other had to do with reporting on experience with writing, evaluating, and sharing process models. Since the last workshop we have made significant progr ...

11 Software process instantiation and the planning paradigm

Karen E. Huff
October 1990 **Proceedings of the 5th international software process workshop on Experience with software process models**

Full text available: pdf(329.47 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the challenges in finding a suitable paradigm for defining software processes relates to the highly dynamic nature of software development. The actions required to carry out a given process are often dependent on detailed aspects of the current state. For example, the modules that need to be archived are just those that have been changed since they were last archived; the choice of archival method (i.e., source code control system versus local backup copy) depends on whether the modu ...

12 Associative/parallel processors for searching very large textual data bases

R. M. Bird, J. C. Tu, R. M. Worthy
January 1977 **Proceedings of the 3rd workshop on Computer architecture : Non-numeric processing**, Volume 9 , 12 , 6 Issue 2 , 1 , 2

Full text available: pdf(532.16 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes an approach to solving a major problem in the information processing sciences— that of searching very large (5-50 billion characters) data bases of unstructured free-text for random queries within a reasonable time and at an affordable price. The need by information specialists and knowledge workers for large, fast low-cost text and document retrieval systems is growing rapidly. Conventional approaches to the problem have usually depended upon expensive ...

13 Maintenance of the computer sciences teleprocessing system

D.E. W. Bucher
April 1975 **ACM SIGPLAN Notices , Proceedings of the international conference on Reliable software**, Volume 10 Issue 6

Full text available: pdf(580.97 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the maintenance and enhancement of the Computer Sciences Teleprocessing System (CSTS) and its component processors. CSTS is the system offered by the INFONET Division of Computer Sciences Corporation to provide nationwide conversational and batch teleprocessing service. In the first section, the organization of the project personnel and major activities of project departments are described. The second section describes the process by which functional enhancements and er ...

Keywords: Change control, Computer sciences, Maintenance, Operating system, Project management, Software, Teleprocessing system, Testing

14 The space station information system and software support environment

C. W. Pittman
April 1988 **Proceedings of the 10th international conference on Software engineering**

Additional Information: full citation, abstract, index terms

The Space Station will be a large, permanent, multi-purpose facility with comfortable living quarters for a crew of up to eight people. It will consist of four habitable modules and a truss to which payloads which do not require human involvement can be attached. It is intended to accommodate a wide variety of science and technology projects (astronomical and geophysical observations, materials and life sciences, etc.) and, as it evolves, to serve as an assembly, servicing, and departure po ...

15 Posters: Industrial applications of unification morphology

Gábor Prószéky
October 1994 **Proceedings of the fourth conference on Applied natural language processing**

Full text available: pdf(172.55 KB) Publisher Site

Additional Information: full citation, abstract, references, citings

Industrial applications of a reversible, string-based, unification approach called Humor (High-speed Unification Morphology) is introduced in the paper. It has been used for creating a variety of proofing tools and dictionaries, like spelling checkers, hyphenators, lemmatizers, inflectional thesauri, intelligent bi-lingual dictionaries and, of course, full morphological analysis and synthesis. The first industrialized versions of all of the above modules work and licensed by well-known software ...

16 Calculation and use of an environment's characteristic software metric set

Victor R. Basili, Richard W. Selby
August 1985 **Proceedings of the 8th international conference on Software engineering**

Full text available: pdf(763.98 KB)

Additional Information: full citation, abstract, references, citings, index terms

Since both cost/quality goals and production environments differ, this study presents an approach for customizing a characteristic set of software metrics to an environment. The approach is applied in the Software Engineering Laboratory (SEL), a NASA Goddard production environment, to 49 candidate process and product metrics of 652 modules from six (51,000 - 112,000 line) projects. For this particular environment, the method yielded the characteristic metric set {source lines, fault correct ...

17 Configuration management with logical structures

Yi-Jing Lin, Steven P. Reiss
May 1996 **Proceedings of the 18th international conference on Software engineering**

Full text available: pdf(1.30 MB) Publisher Site

Additional Information: full citation, abstract, references, citings, index terms

When designing software, programmers usually think in terms of modules that are represented as functions and classes, but using existing configuration management systems, programmers have to deal with versions and configurations that are organized by files and directories. This is inconvenient and error-prone, since there is a gap between handling source code and managing configurations. We present a framework for programming environments that handles versions and configurations directly in term ...

Keywords: classes, computer aided software engineering, configuration management, cooperative programming, directories, files, functions, logical structures, modules, programming environments, prototype environment, software design, software reusability, software reuse, source code, versions

18 STATEMATE applied to statistical software testing

P. Thévenod-Fosse, H. Waeselynck
July 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1993 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 18 Issue 3

Full text available: pdf(1.31 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper is concerned with the use of statistical testing as a verification technique for complex software. Statistical testing involves exercising a program with random inputs, the test profile and the number of generated inputs being determined according to criteria based on program structure or software functionality. In case of complex programs, the

probabilistic generation must be based on a black box analysis, the adopted criteria being defined from behavior model ...

19 Digital preservation: A semi-automated digital preservation system based on semantic web services

Jane Hunter, Sharmin Choudhury

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(357.74 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a Web-services-based system which we have developed to enable organizations to semi-automatically preserve their digital collections by dynamically discovering and invoking the most appropriate preservation service, as it is required. By periodically comparing preservation metadata for digital objects in a collection with a software version registry, potential object obsolescence can be detected and a notification message sent to the relevant agent. By making preservation so ...

Keywords: digital preservation, semantic web services

20 User-based integration software

John Fitch

August 1981 **Proceedings of the fourth ACM symposium on Symbolic and algebraic computation**

Full text available: pdf(303.01 KB) Additional Information: full citation, abstract, references, citings, index terms

Algorithms are not the same as user software; which is like saying that pure mathematics is not the same as its application. In earlier algebra conferences Risch and Norman (1976) and Norman and Davenport (1979) have described a new method for symbolic indefinite integration. This paper is based on the work described there, but considers the process of turning this important area of algorithm research into a module for the REDUCE algebra system, in a form that can be used by the regular RED ...

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IEEE STD	IEEE Standard

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